



Biological Analysis Soil

Report prepared for:

Sonoma Mountain Institute
Byron Palmer
4080 Manor Lane
Petaluma, CA 94954 USA

Report Sent: 3/27/2014
Sample#: 01-118351 | Submission:01-023709
Unique ID: B2
Plant: Not Indicated

Invoice Number: 10905
Sample Received: 3/14/2014

byronpalmer@hotmail.com

For interpretation of this report please contact:
Earthfort Labs
info@earthfort.com
(541) 257-2612

Consulting fees may apply

Organism Biomass Data	Dry Weight	Active Bacteria (µg/g)	Total Bacteria (µg/g)	Active Fungi (µg/g)	Total Fungi (µg/g)	Hyphal Diameter (µm)	Nematode detail (# per gram or # per mL) Classified by type and identified to genus. (If section is blank, no nematodes identified.)
Results	0.850	47.4	1155	14.9	631	2.75	
Comments	Above Range	In range	Above range	Below range	Above range		
Expected Range	Low	30	300	30	300		
	High	0.85	60	600	600		
	Protozoa (Numbers/g)			Total	Mycorrhizal Colonization (%)		
	Flagellates	Amoebae	Ciliates	Nematodes #/g	ENDO	ECTO	
Results	676	6769	16	Not Ordered	14%	0%	
Comments	Low	Good	Good		Good	Low	
Expected Range	Low	5000	5000	10	10%	10%	
	High	50000	50000	20	50%	50%	
Organism Biomass Ratios	Total Fungi to Tot.Bacteria	Active to Total Fungi	Active to Total Bacteria	Active Fungi to Act.Bacteria	Nitrogen Cycling Potential (lbs/ac)		
Results	0.55	0.02	0.04	0.31	50-75		
Comments	Low	Low	Low	Low			
Expected Range	Low	1	0.1	1			
	High	2	0.15	2			

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Dry Weight: Add organic matter to build soil structure, increase water holding capacity.

Active Bacteria: Bacterial activity within normal levels.

Total Bacteria: Excellent bacterial biomass.

Active Fungi: Fungal activity low, foods may be required.

Total Fungi: Excellent fungal biomass.

Hyphal Diameter: Good balance of fungi.

Protozoa: Lacking species diversity.

Total Nematodes:

Mycorrhizal Col.: Normal colonization.

TF/TB: Too bacterial for some plants

AF/TF: Low fungal activity, foods may be required.

AB/TB: Low bacterial activity relative to total biomass

AF/AB: Bacterial dominated, becoming more bacterial.

Interpretation Comments:

Actinobacteria Biomass = 13.5 ug/g
Fair fungal diversity. Hyphal diameter 1.5 to 5um.
VAM = Hyphae and Vesicles